

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

What is claimed is:

1. (Cancelled)

2. (Previously Presented) A method of forming a ZnO nanowall array, which comprises:

coating on a substrate ZnO nanoparticles serving both as a buffer layer and a seed layer; and

growing the ZnO nanoparticles into crystals to form the ZnO nanowall array in a nutrient solution consisting of sodium citrate, at least one selected from the group consisting of Zn acetate and its derivative, and a solvent,

wherein the substrate is made of Si, sapphire (Al₂O₃), GaN, ScAlMgO₄, or LiNbO₃,

wherein the operation of growing the ZnO nanoparticles in the nutrient solution is performed at 90 to 100°C.

3. (Cancelled)

4. (Cancelled)

5. (Previously Presented) The method of claim 2, wherein a volume ratio of Zn acetate or its derivative to sodium citrate in the nutrient solution is 10:1 to 1:10.

6. (Cancelled)

7. (Currently Amended) A ZnO nanowall array formed by the method of claim 2, wherein the [0001] plane is vertically aligned with respect to the substrate.

8-12. (Cancelled)

13. (Previously Presented) The method of claim 2, wherein the nutrient solution consists of Zn acetate, sodium citrate and a solvent.